

## **APPENDIX 1: Rail Preliminary Cost Estimates**

Project: **Northport Transportation Study -Rail Alternatives Technical Memo**  
 Location: Lewiston, ID  
 General Scope: Concept 1 Part A - South Yard Tracks  
 Estimate Date: 10/1/2013

	Units	Unit Cost	Quantity	Total	Comments
<b>Earthwork</b>					
Subballast	CY	\$40	669.63	\$ 26,785	
Erosion Controls	MI	\$50,000	0.21	\$ 10,701	
<b>Earthwork Subtotal</b>				<b>\$ 37,486</b>	
<b>Track</b>					
<b>Track Construction</b>					
New Yard Track	TF	\$142	1,130.00	\$ 160,460	
<b>Track/Turnout Removal/Relocation</b>					
Remove Existing Track	TF	\$15	120	\$ 1,800	
<b>Turnouts</b>					
#11	EA	\$188,400	1	\$ 188,400	
<b>Track Subtotal</b>				<b>\$ 350,660</b>	
<b>Roadway</b>					
<b>At-Grade Crossing</b>					
HMA Crossing Surface Installed	TF	\$125	160.00	\$ 20,000	Excludes Track; w/o flangeway rail
Urban Minor Crossing Approaches	SY	\$75	1,688.89	\$ 126,667	
<b>Roadway Subtotal</b>				<b>\$ 146,667</b>	
<b>CONSTRUCTION TOTAL</b>				<b>\$ 534,813</b>	
<b>Enviromental Mitigation (0%)</b>	LS	534,813	0%	\$ -	
<b>SUBTOTAL</b>				<b>\$ 534,813</b>	
<b>Sales Tax (6%)</b>	%	534,813	6.0%	\$ 32,089	Use Tax for ID
<b>"CN" PHASE SUBTOTAL</b>				<b>\$ 566,901</b>	
<b>Pre-Const'n Engineering and Admin. (10%)</b>	LS	534,813	10%	\$ 53,481	
<b>"PE" PHASE SUBTOTAL</b>				<b>\$ 53,481</b>	
<b>Right-of-Way Acquisition</b>					
<b>"RW" PHASE SUBTOTAL</b>				<b>\$ -</b>	
<b>TOTAL - All phases</b>				<b>\$ 620,383</b>	
<b>Contingencies - Based on level of design and known unknowns</b>		620,383	20%	\$ 124,077	
<b>Estimate Total</b>				<b>\$ 744,459</b>	

Project: **Northport Transportation Study -Rail Alternatives Technical Memo**  
 Location: Lewiston, ID  
 General Scope: Concept 1 Part B - North Yard Tracks  
 Estimate Date: 10/1/2013

	Units	Unit Cost	Quantity	Total	Comments
<b>Earthwork</b>					
Subballast	CY	\$40	899.56	\$ 35,982	
Erosion Controls	MI	\$50,000	0.29	\$ 14,375	
<b>Earthwork Subtotal</b>				<b>\$ 50,357</b>	
<b>Track</b>					
<i>Track Construction</i>					
New Yard Track	TF	\$142	1,518.00	\$ 215,556	
<i>Track/Turnout Removal/Relocation</i>					
Remove Existing Track	TF	\$15	586	\$ 8,790	
<i>Turnouts</i>					
#11	EA	\$188,400	1	\$ 188,400	
<b>Track Subtotal</b>				<b>\$ 412,746</b>	
<b>Roadway</b>					
<i>At-Grade Crossing</i>					
Concrete Crossing Panels Installed	TF	\$953	102.00	\$ 97,201	Excludes Track; 12th St. is 52 Ft wide
Urban Minor Crossing Approaches	SY	\$75	1,050.00	\$ 78,750	
<b>Roadway Subtotal</b>				<b>\$ 175,951</b>	
<b>CONSTRUCTION TOTAL</b>				<b>\$ 639,054</b>	
<b>Enviromental Mitigation (0%)</b>	LS	639,054	0%	\$ -	
<b>SUBTOTAL</b>				<b>\$ 639,054</b>	
<b>Sales Tax (6%)</b>	%	639,054	6.0%	\$ 38,343	Use Tax for ID
<b>"CN" PHASE SUBTOTAL</b>				<b>\$ 677,398</b>	
<b>Pre-Const'n Engineering and Admin. (10%)</b>	LS	639,054	10%	\$ 63,905	
<b>"PE" PHASE SUBTOTAL</b>				<b>\$ 63,905</b>	
<b>Right-of-Way Acquisition</b>					
<b>"RW" PHASE SUBTOTAL</b>				<b>\$ -</b>	
<b>TOTAL - All phases</b>				<b>\$ 741,303</b>	
<b>Contingencies - Based on level of design and known unknowns</b>		741,303	20%	\$ 148,261	
<b>Estimate Total</b>				<b>\$ 889,564</b>	

Project: Northport Transportation Study -Rail Alternatives Technical Memo

Location: Lewiston, ID

General Scope: Concept 2 Part A -3rd Avenue Yard tracks and leads

Estimate Date: 10/1/2013

	Units	Unit Cost	Quantity	Total	Comments
<b>Earthwork</b>					
Subballast	CY	\$40	2,954.67	\$ 118,187	
Erosion Controls	MI	\$50,000	0.94	\$ 47,216	
<b>Earthwork Subtotal</b>				<b>\$ 165,403</b>	
<b>Track</b>					
<b>Track Construction</b>					
New Yard Track	TF	\$142	4,986.00	\$ 708,012	
<b>Track/Turnout Removal/Relocation</b>					
Remove Existing Track	TF	\$15	1,590	\$ 23,850	
<b>Turnouts</b>					
#11	EA	\$188,400	3	\$ 565,200	
<b>Track Subtotal</b>				<b>\$ 1,297,062</b>	
<b>RR Structures Subtotal</b>				<b>\$ -</b>	
<b>Roadway</b>					
<b>At-Grade Crossing</b>					
Concrete Crossing Panels Installed	TF	\$953	502.00	\$ 478,383	Excludes Track; 12th St. is 52 Ft wide; 6th/3rd is about 200 ft wide on angle
Urban Minor Crossing Approaches	SY	\$75	5,305.00	\$ 397,875	
<b>Roadway Subtotal</b>				<b>\$ 876,258</b>	
<b>CONSTRUCTION TOTAL</b>				<b>\$ 2,338,722</b>	
<b>Enviromental Mitigation (0%)</b>	LS	2,338,722	0%	\$ -	
<b>SUBTOTAL</b>				<b>\$ 2,338,722</b>	
<b>Sales Tax (6%)</b>	%	2,338,722	6.0%	\$ 140,323	Use Tax for ID
<b>"CN" PHASE SUBTOTAL</b>				<b>\$ 2,479,045</b>	
<b>Pre-Const'n Engineering and Admin. (10%)</b>	LS	2,338,722	10%	\$ 233,872	
<b>"PE" PHASE SUBTOTAL</b>				<b>\$ 233,872</b>	
<b>Right-of-Way Acquisition</b>					
<b>"RW" PHASE SUBTOTAL</b>				<b>\$ -</b>	
<b>TOTAL - All phases</b>				<b>\$ 2,712,918</b>	
<b>Contingencies - Based on level of design and known unknowns</b>		2,712,918	20%	\$ 542,584	
<b>Estimate Total</b>				<b>\$ 3,255,501</b>	

Project: **Northport Transportation Study -Rail Alternatives Technical Memo**  
 Location: Lewiston, ID  
 General Scope: Concept 2 Part B -Grain Loading Tail track  
 Estimate Date: 10/1/2013

	Units	Unit Cost	Quantity	Total	Comments
<b>Earthwork</b>					
Common Excavation	CY	\$15	19,230.81	\$ 288,462	See note Below
Subballast	CY	\$40	1,012.15	\$ 40,486	
Erosion Controls	MI	\$50,000	0.32	\$ 16,174	
<b>Earthwork Subtotal</b>				<b>\$ 345,122</b>	
<b>Track</b>					
<i>Track Construction</i>					
New Track	TF	\$195	-	\$ -	
Rehab Track	TF	\$125	-	\$ -	
New Yard Track	TF	\$142	1,708.00	\$ 242,536	
Lineover Track	TF	\$25	-	\$ -	
<i>Track/Turnout Removal/Relocation</i>					
Remove Existing Track	TF	\$15	250	\$ 3,750	
<b>Track Subtotal</b>				<b>\$ 246,286</b>	
<b>CONSTRUCTION TOTAL</b>				<b>\$ 591,408</b>	
<b>Enviromental Mitigation (0%)</b>	LS	591,408	0%	\$ -	
<b>SUBTOTAL</b>				<b>\$ 591,408</b>	
<b>Sales Tax (6%)</b>	%	591,408	6.0%	\$ 35,485	Use Tax for ID
<b>"CN" PHASE SUBTOTAL</b>				<b>\$ 626,893</b>	
<b>Pre-Const'n Engineering and Admin. (10%)</b>	LS	591,408	10%	\$ 59,141	
<b>"PE" PHASE SUBTOTAL</b>				<b>\$ 59,141</b>	
<b>Right-of-Way Acquisition</b>					
<b>"RW" PHASE SUBTOTAL</b>				<b>\$ -</b>	
<b>TOTAL - All phases</b>				<b>\$ 686,034</b>	
<b>Contingencies - Based on level of design and known unknowns</b>		686,034	20%	\$ 137,207	
<b>Estimate Total</b>				<b>\$ 823,240</b>	

Note: Excavation assumed to be 8 ft. deep and 22 ft. wide at the base with 2:1 side slopes for 1708 ft.